

Date: Mon, 16 Aug 93 04:30:01 PDT
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #241
To: packet-radio

Packet-Radio Digest Mon, 16 Aug 93 Volume 93 : Issue 241

Today's Topics:

3 KW Generator for Sale
4 Cylinder Engines 4 Sale
Digital Hierarchy
Guide to the Personal Radio Newsgroups
PMP/Baycom & HP95
Settings for Baypac & IC24AT?
WA4DSY 56kb/s modem

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Aug 93 11:15:00 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!magnus.acs.ohio-
state.edu!csn!csn!sosinc!robert.garcia@network.ucsd.edu
Subject: 3 KW Generator for Sale
To: packet-radio@ucsd.edu

3.0 KW GASOLINE POWERED 16 TO 36 VOLT DC GENERATOR FOR SALE

I have one military surplus cage mounted DC generator that has been
refurbished and is offered for sale. The unit has a manually variable
voltage output of about 16 to 36 volts at up to 105 Amps continuous
operation. The generator will provide approximately 200 Amps
intermediately if the circuit breaker is bypassed. These generators were
originally designed to power military radio transmitters under extreme
conditions or "jump start" large diesel engines in trucks and tanks.

IMPORTANT NEW INFORMATION

The generator package is a 60 Hz 3 phase AC generator producing 13.5 to 30 volts at about 35 Amps per leg. The AC output is then brought through a bridge rectifier array to provide the DC power in the same manner as the alternator in your car. I have run regular 60 Hz items like a refrigerator, fan or coffee pot directly off a step up (28 v to 110v) transformer connected to one leg of the output of the generator. Higher 60 Hz voltages are available if the regulator is modified!

The generators are powered by a heavy duty four (4) cylinder air cooled industrial (Wisconsin) engine of 32 cubic inches and produce about 16 horsepower using ANY type of gasoline. The engines have a protected Fairbanks Morse ignition system designed to start and run under the worst weather conditions. This engine package is also used to power a military standard 5 KW or 10 KW 120/240 volt 60 Hz generator instead of the 28 volt DC generator.

The military engines are easy to maintain and operate and come equipped with a replaceable cartridge type oil filter and mechanical fuel pump allowing gasoline to be drawn from the integral 3.75 gallon tank or an auxiliary fuel tank. Repair parts are available at any auto supply outlet or outboard motor supply business. These generators were designed to be "GI proof" and have been maintained and rebuilt to the same standards as when originally put into operation.

Possible uses are:

Running transmitters and repeater communication systems.

Charging 24 volt trolling motor batteries.

Charging 36 volt fork lift batteries.

Providing "backup" power for solar systems.

Jump starting diesel engines at truck stops or fixed sites.

Powering 24 volt to 120 volt 60 Hz inverters as found in RV's.

Conversion to 120/240 volt 60 Hz generators for emergency use.

Original cost to the US Government: \$3467.00

Price: \$600 each with Rope Starter FOB Baton Rouge, LA.

\$675 each with Electric Starter FOB Baton Rouge, LA.

Weight: 275 pounds each

Dimensions: 35" Length, 24" Width, 25" Height

Fuel Consumption: Approximately 1 gallon per hour at full load

-> I also have a 1.5 KW gasoline powered 16 to 36 volt DC generator for sale. This generator has been used to jump start 24 volt diesel engine starters on both generators and trucks. The generator is military surplus and is in excellent condition.

Robert Garcia, Ph.D. PO Box 22106 Baton Rouge, LA 70894 (504) 767-4100
Internet Address: robert.garcia@sosinc.com
RIME Routing: ->505
ThrobNet Routing: ->505
ILink Routing: ->CAJUN

. SM 1.06 ----- . Dr Robert Garcia, PO Box 22106, Baton Rouge, LA 70894 USA

+-----+
| Southern On-line Services - SysOp: Russell Jackson - 504-356-0790 |
| 2000+ Windows Files, 2.4 Gig, Internet, RIME and Throbnets On-line |
+-----+

Date: 14 Aug 93 11:15:00 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!csn!sosinc!robert.garcia@network.ucsd.edu
Subject: 4 Cylinder Engines 4 Sale
To: packet-radio@ucsd.edu

FOUR CYLINDER AIR COOLED WISCONSIN GASOLINE POWERED ENGINE FOR SALE

I have a few rebuilt (overhauled) Wisconsin Military Spec gasoline powered four (4) cylinder engines remaining for sale. These engines were formerly used in the Army's 1200 GPM decontamination sprayers and are in excellent condition. Most engines have approximately 100 hours since a COMPLETE overhaul and rebuild.

The engines have the following specifications:

4 cylinder horizontally opposed with 84 cubic inch displacement
4 stroke OHV engine with 3" bore X 3" inch stroke
Compression ratio approximately 7.2:1 (runs on LOW octane gasoline)
Approximately 40 Horsepower at 3600 RPM
Adjustable governor presently set for 3600 RPM
Engine will work perfectly with throttle cable instead of governor
Bendix carburetor with adjustable high and low speed jets
Manual and/or solenoid operated choke
Mechanical fuel pump for drawing fuel from remote tank
Completely enclosed ignition system with Fairbanks Morse magneto
Cartridge type oil filter easily converted to "Spin On" type
Low oil pressure sensor and shutoff switch (can be bypassed)
Cooling fan built into flywheel
Built in 24 volt 40 Amp alternator with regulator and rectifiers
Electric starter available (Engine can be started with rope)

Dual exhaust, dual muffler system with crossover pipe

Need an easily fabricated top sheet metal cover for your special installation. Will run fine without this cover but components (Carb, magneto, fuel pump, oil pressure sending unit, etc.) on top are exposed.

Original cost to government > \$3500 each

\$250 without Electric Starter FOB Baton Rouge, LA
\$300 with Electric Starter FOB Baton Rouge, LA

Possible uses are:

This air cooled engine is ideal for use in large "mudboats".
Powering Industrial Air Compressors for Painting and Sand Blasting
Powering Emergency Water Pumps for Flood Duty
Powering High Pressure Water Pumps for Industrial Cleaning Uses.
Powering Medium Size Farm and Garden Tractors
Powering 120/240 volt 60 Hz Generators for Emergency use
(Will Power up to 15 KW Generator.)

THIS ENGINE WILL POWER AN INDUSTRIAL WELDING MACHINE!

Weight: Approximately 250 pounds each
Dimensions: 32" Length, 32" Width, 27" Height

Fuel Consumption: Approximately 1.0 gallon per hour at half load
Approximately 2.2 gallon per hour at full load

Robert Garcia, Ph.D. PO Box 22106 Baton Rouge, LA 70894 (504) 767-4100

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. SM 1.06 ----- . Dr Robert Garcia, PO Box 22106, Baton Rouge, LA 70894 USA

+-----+
| Southern On-line Services - SysOp: Russell Jackson - 504-356-0790 |
| 2000+ Windows Files, 2.4 Gig, Internet, RIME and Throbnets On-line |
+-----+

Date: Sun, 15 Aug 1993 13:16:52 GMT

From: usc!howland.reston.ans.net!europa.eng.gtefsd.com!emory!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: Digital Hierarchy
To: packet-radio@ucsd.edu

In article <CB1r91o.5tG@dartvax.dartmouth.edu> Kenneth.E.Harker@Dartmouth.Edu
(Kenneth E. Harker) writes:

> It would seem to me that a sensible solution to the digital
> hierarchy problem would be for someone to start the voting process for
> groups like:
>
> rec.radio.amateur.digital.packet
> rec.radio.amateur.digital.tcpip
> rec.radio.amateur.digital.rtty
> rec.radio.amateur.digital.pactor
> rec.radio.amateur.digital.equipment
>
> etc...
>
> This is the logical hierarchy, and most probably the reason that
> rec.radio.amateur.digital.misc won the vote. This is similar to when
> the rec.ham-radio hierarchy was changed to rec.radio.amateur. It will
> make more sense in the long run. All that is necessary is for the rest
> of the newsgroups to get created.

Most of these proposed groups were in the reorg vote. They all
failed except the rename of rec.radio.amateur.packet to
rec.radio.amateur.digital.misc. Since they failed, they can't
be repropose for 6 months under the Usenet guidelines.

We need to wait and see if there's sufficient traffic about these
other subjects over the next six months to warrant creating separate
groups. Note, under the guidelines at least 100 votes have to be
cast in favor of a group before it passes. If we don't see at least
100 RTTY posters, or PACTOR posters, etc over the next six months,
then calling for a new vote is likely pointless. We haven't seen
that volume in the past, but the name change to digital.misc may
attract more of that sort of thing over the waiting period.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: Sun, 15 Aug 1993 11:00:24 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Guide to the Personal Radio Newsgroups
To: packet-radio@ucsd.edu

Posted-By: auto-faq 2.4
Archive-name: radio/personal-intro
Revision: 1.4 06/30/93 12:04:14
Changes: new rec.radio.amateur.* newsgroups, cs.utexas.edu gateway

(Note: The following is reprinted with the permission of the author.
Due to the recent reorganization, it is also on a temporarily-
accelerated posting schedule as follows:

July weekly
August bi-weekly
September back to monthly)

This message describes the rec.radio.amateur.*, rec.radio.cb, rec.radio.info, and rec.radio.swap newsgroups. It is intended to serve as a guide for the new reader on what to find where. Questions and comments may be directed to the author, Jay Maynard, K5ZC, by Internet electronic mail at jmaynard@oac.hsc.uth.tmc.edu. This message was last changed on 30 June 1993 to add the groups created during the latest reorganization vote and the description of the cs.utexas.edu gateway.

History
=====

Way back when, before there was a Usenet, the Internet hosted a mailing list for hams, called (appropriately enough) INFO-HAMS. Ham radio discussions were held on the mailing list, and sent to the mailboxes of those who had signed up for it. When the Usenet software was created, and net news as we now know it was developed, a newsgroup was created for hams: net.ham-radio. The mailing list and the newsgroup were gatewayed together, eventually.

As the net grew, and as packet radio came into vogue, packet discussion began to dominate other topics in the group and on the list. This resulted in the logical solution: a group was created to hold the packet discussion, and another corresponding mailing list was created as well: net.ham-radio.packet and PACKET-RADIO, respectively.

These two groups served for several years, and went through Usenet's Great Renaming essentially unchanged, moving from net.ham-radio[.packet] to rec.ham-radio[.packet]. Readership and volume grew with the rest of the network.

The INFO-HAMS mailing list was originally run from a US Army computer at

White Sands Missile Range, SIMTEL20. There were few problems with this arrangement, but one was that the system was not supposed to be used for commercial purposes. Since one of hams' favorite pastimes is swapping gear, it was natural for hams to post messages about equipment for sale to INFO-HAMS/rec.ham-radio. This ran afoul of SIMTEL20's no-commercial-use restriction, and after some argument, a group was created specifically for messages like that: rec.ham-radio.swap. This group wasn't gatewayed to a mailing list, thus avoiding problems.

While all this was happening, other folks wanted to discuss other aspects of the world of radio than the personal communications services. Those folks created the rec.radio.shortwave and rec.radio.noncomm newsgroups, and established the precedent of the rec.radio.* hierarchy, which in turn reflected Usenet's overall trend toward a hierarchical name structure.

The debate between proponents of a no-code ham radio license and its opponents grew fierce and voluminous in late 1989 and 1990. Eventually, both sides grew weary of the debate, and those who had not been involved even more so. A proposal for a newsgroup dedicated to licensing issues failed. A later proposal was made for a group that would cover the many recurring legal issues discussions. During discussion of the latter proposal, it became clear that it would be desirable to fit the ham radio groups under the rec.radio.* hierarchy. A full-blown reorganization was passed by Usenet voters in January 1991, leading to the overall structure we now use.

After the reorganization, more and more regular information postings began to appear, and were spread out across the various groups in rec.radio.*. Taking the successful example of the news.answers group, where informational postings from across the net are sent, the group rec.radio.info was created in December, 1992, with Mark Salyzyn, VE6MGS, initially serving as moderator.

In January, 1993, many users started complaining about the volume in rec.radio.amateur.misc. This led to a discussion about a second reorganization, which sparked the creation of a mailing list by Ian Kluft, KD6EUI. This list, which was eventually joined by many of the most prolific posters to the ham radio groups, came up with a proposal to add 11 groups to the rec.radio.amateur hierarchy in April 1993. The subsequent vote, held in May and early June, approved the creation of five groups: rec.radio.amateur.digital.misc (to replace .packet), .equipment, .homebrew, .antenna, and .space.

The Current Groups =====

I can hear you asking, "OK, so this is all neat history, but what does it have to do with me now?" The answer is that the history of each group has a direct bearing on what the group is used for, and what's considered appropriate where.

The easy one is `rec.radio.amateur.misc`. It is what `rec.ham-radio` was renamed to during the reorganization. Any message that's not more appropriate in one of the other groups belongs here, from contesting to DX to ragchewing on VHF to information on becoming a ham.

The group `rec.radio.amateur.digital.misc` is for discussions related to (surprise!) digital amateur radio. This doesn't have to be the common two-meter AX.25 variety of packet radio, either; some of the most knowledgeable folks in radio digital communications can be found here, and anything in the general area is welcome. The name was changed to emphasize this, and to encourage discussion not only of other text-based digital modes, such as AMTOR, RTTY, and Clover, but things like digital voice and video as well. The former group, `rec.radio.amateur.packet`, has not been removed as of this writing, but it is obsolete, and you should use `.digital.misc` instead. The group has the `.misc` as part of the name to allow further specialization if the users wish it, such as `.digital.tcp-ip`.

The swap group is now `rec.radio.swap`. This recognizes a fact that became evident shortly after the original group was formed: Hams don't just swap ham radio gear, and other folks besides hams swap ham equipment. If you have radio equipment, or test gear, or computer stuff that hams would be interested in, here's the place. Equipment wanted postings belong here too. Discussions about the equipment generally don't; if you wish to discuss a particular posting with the buyer, email is a much better way to do it, and the other groups, especially `.equipment` and `.homebrew`, are the place for public discussions. There is now a regular posting with information on how to go about buying and selling items in `rec.radio.swap`; please refer to it before you post there.

The first reorganization added two groups to the list, one of which is `rec.radio.amateur.policy`. This group was created as a place for all the discussions that seem to drag on interminably about the many rules, regulations, legalities, and policies that surround amateur radio, both existing and proposed. The neverending no-code debate goes here, as does the New Jersey scanner law, the legality of ordering a pizza on the autopatch, what a bunch of rotten no-goodniks the local frequency coordinating body is, and so on.

The other added group is `rec.radio.cb`. This is the place for all discussion about the Citizens' Band radio service. Such discussions have been very inflammatory in `rec.ham-radio` in the past; please do not cross-post to both `rec.radio.cb` and `rec.radio.amateur.*` unless the topic is genuinely of interest to both hams and CBers - and very few topics are.

The `rec.radio.info` group is just what its name implies: it's the place where informational messages from across `rec.radio.*` may be found, regardless of where else they're posted. As of this writing, information posted to the group includes Cary Oler's daily solar propagation bulletins, ARRL bulletins, the

Frequently Asked Questions files for the various groups, and radio modification instructions. This group is moderated, so you cannot post to it directly; if you try, even if your message is crossposted to one of the other groups, your message will be mailed to the moderator, who is currently Mark Salyzyn, VE6MGS. The email address for submissions to the group is `rec-radio-info@ve6mgs.ampr.ab.ca`. Inquires and other administrivia should be directed to `rec-radio-request@ve6mgs.ampr.ab.ca`. For more information about `rec.radio.info`, consult the introduction and posting guidelines that are regularly posted to that newsgroup.

The groups `rec.radio.amateur.antenna`, `.equipment`, `.homebrew`, and `.space` are for more specialized areas of ham radio: discussions about antennas, commercially-made equipment, homebrewing, and amateur radio space operations. The `.equipment` group is not the place for buying or selling equipment; that's what `rec.radio.swap` is for. Similarly, the `.space` group is specifically about amateur radio in space, such as the OSCAR program and SAREX, the Shuttle Amateur Radio EXperiment; other groups cover other aspects of satellites and space. Homebrewing isn't about making your own alcoholic beverages at home (that's `rec.crafts.brewing`), but rather construction of radio and electronic equipment by the amateur experimenter.

The `rec.radio.amateur.misc`, `.packet`, and `.policy` groups, and the `rec.radio.info` group, are available by Internet electronic mail in digest format; send a mail message containing "help" on a line by itself to `listserv@ucsd.edu` for instructions on how to use the mail server. The `rec.radio.swap` group is not available for reading by electronic mail. At this writing, the most recently added groups are also not available for reading by electronic mail, although that may change.

All of the groups can be posted to by electronic mail, though, by using a gateway at the University of Texas at Austin. To post a message this way, change the name of the group you wish to post to by replacing all of the `'.'`'s with `'-'`'s - for example, `rec.radio.swap` becomes `rec-radio-swap` - and send to that name@cs.utexas.edu (`rec-radio-swap@cs.utexas.edu`, for example). You may crosspost by including multiple addresses as Cc: entries (but see below). This gateway's continued availability is at the pleasure of the admins at UT-Austin, and is subject to going away at any time - and especially if forgeries and other net.abuses become a problem. You have been warned.

A Few Words on Crossposting

=====

Please do not crosspost messages to two or more groups unless there is genuine interest in both groups in the topic being discussed, and when you do, please include a header line of the form "Followup-To: group.name" in your article's headers (before the first blank line). This will cause followups to your article to go to the group listed in the Followup-To: line. If you wish to have replies to go to you by email, rather than be posted, use the word

"poster" instead of the name of a group. Such a line appears in the headers of this article.

One of the few examples of productive cross-posting is with the rec.radio.info newsgroup. To provide a filtered presentation of information articles, while still maintaining visibility in their home newsgroups, the moderator strongly encourages cross-posting. All information articles should be submitted to the rec.radio.info moderator so that he may simultaneously cross-post your information to the appropriate newsgroups. Most newsreaders will only present the article once, and network bandwidth is conserved since only one article is propagated. If you make regular informational postings, and have made arrangements with the moderator to post directly to the group, please cross-post as appropriate.

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.

"If my car ran OS/2, it'd be there by now" -- bumper sticker

GCS d++ p+ c++ l+ m+/- s/++ g++ w++ t+ r

--

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

Celebrating 60 years of the Univ. of Maryland ARA - W3EAX (1933-1993)

Date: 15 Aug 1993 15:40:48 -0400

From: usc!howland.reston.ans.net!noc.near.net!news.delphi.com!news.delphi.com!not-
for-mail@network.ucsd.edu

Subject: PMP/Baycom & HP95

To: packet-radio@ucsd.edu

Has anyone found a way to run Baycom or Poor Man Packet TNC emulators on the HP95LX with it's non-standard three wire serial port? PMP uses the parallel port to pass data, Baycom uses the serial port but both use more than the three lines available in the HP95. The combination of a handheld and a palmtop makes a VERY portable packet operation. If you have any experience or suggestions in this area please drop me a line.

Jay Godwin

KB5LET@N5LJF.#AUS.TX.USA.NA

JAYG@DELPHI.COM

71660.3121@COMPUSERVE.COM

Date: Sun, 15 Aug 1993 19:21:56 GMT
From: psinntp!gdstech!gdstech!bat@uunet.uu.net
Subject: Settings for Baypac & IC24AT?
To: packet-radio@ucsd.edu

You didnt say what kinds of lockups you had. But, they might not be from a parameter problem at all. More likely RF from your radio is getting into your computer, and killing it. This is a very common problem, even with ATs, but easily solved. Ground everything (radio, 486, TNC if metal), and put ferrites on all the cables, and your antenna coax. I'll bet the problem goes away.

--

```
*-----*
*   Pat Masterson   D12-25   | KE2LJ@KC2FD           *
*   Grumman Data Systems | 516-346-6316.         *
*   Bethpage, NY 11746   | bat@gdstech.grumman.com    *
```

Date: Sun, 15 Aug 1993 22:35:22 GMT
From: ghost.dsi.unimi.it!dm.unibo.it!lelli@tcgould.tn.cornell.edu
Subject: WA4DSY 56kb/s modem
To: packet-radio@ucsd.edu

I would like to know more about high speed modems to be used on radio communications with KA9Q Nos.
Any Info will be of great help to me.

IW4CMN, Pierluigi

E-Mail : lelli@ganimede.csr.unibo.it
Fax : +39-547-318462

End of Packet-Radio Digest V93 #241
